

ABSTRACT

A process for removing extremely fine and sticky particles, such as smoke, from gas streams comprising the steps of: increasing the relative humidity of the gas and compelling the gas to interact with a cold solid surface. This invention is most suitable for removing smoke from the exhaust gas of vehicular Diesel engines because it can have a low water usage and the components can replace the muffler for noise reduction, thereby avoiding any significant increase of engine back pressure. In addition, the components of this invention will not require a large space for installation and can be made to fit on the vehicle.